

More particularly, the monobasic iodide salt comprises at least about 0.01 to 0.5% by weight of the composition. The organic acid comprises at least about 0.1 to 1.0% by weight of composition. The oxidizing agent comprises at least about 0.02 to 0.5% by weight of composition and the composition is buffered to a pH between 2 and 5. The composition precludes persulfate salts since they react with the iodide salt and cannot be packed together.

Preferably the composition of the present invention is dissolved in water to equal one liter prior to use.—

On page 9, after line 11, insert:

--The present invention provides an antimicrobial composition for removing biofilm from a medical water line comprising an aqueous acidic solution containing an effective amount of a monobasic iodide salt, an effective amount of an organic acid, an effective amount of at least one oxidizing agent and an inorganic phosphate buffer. Preferably, the pH of the solution is about 2 to 5, is utilized in an effective amount to remove biofilm material and the oxidizing agent is free of persulfate salts.

More particularly, the composition comprises a monobasic iodide salt which is an alkali metal salt, preferably sodium or potassium iodide in an amount of at least about 0.01 to 0.5% by weight, more preferably about 0.01 to 0.1%. The composition contains a dicarboxylic acid having up to eight carbon atoms, preferably selected from the group consisting of citric acid, ascorbic acid, and oxalic acid in an amount of about 0.1 to 1% by weight, preferably 0.1 to 0.5%.

The oxidizing agent is the alkali metal salt of a per acid or urea hydroxy peroxide which is present in an amount of at least about 0.1 to 1.0% by weight, preferably about 0.001 to 0.01% by weight of a member selected from the group consisting of sodium percarbonate, sodium perborate and urea hydrogen peroxide and mixtures thereof.

The inorganic phosphate buffer comprises a mono or dibasic potassium hydrogen phosphate in an amount to provide a pH between about 2 to 5.

A preferred composition for removing biofilm from a medical unit water line consists essentially of about 0.025% by weight of sodium iodide, about 0.16% by weight of citric acid and about 0.005% by weight of a mono and/or dibasic alkali metal salt of